FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. UC072 001A	APPLICATION NO. 09/990,613
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	APPLICANT WU et al	
	FILING DATE November 21, 2001	GROUP [redacted]

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1.	6,136,539	10/24/00	Basbaum et al	435	6	02/11/99
	2.	US 670,747 B1	08/07/01	Nadel et al	424	9.2	08/17/99

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	3.	JP9012473A2	14.01.97	Japan				X
	4.	WO 99/41270	19.08.99	PCT			X	
	5.	WO 00/04142	27.01.00	PCT			X	
	6.	WO 01/54685 A1	02.08.01	PCT			X	

EXAMINER INITIAL		**OTHER DOCUMENTS** (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
	7.	Bernacki *et al.*, "Mucin Gene Expression during Differentiation of Human Airway Epithelia *In Vitro*. MUC4 and MUC5B Are Strongly Induced," *American Journal of Respiratory Cell and Molecular Biology*, 20(4):595-604 (1999).
	8.	Chen *et al.*, "Characterization of human MUC5B gene expression in airway epithelium and the genomic clone of the amino-terminal and 5'-flanking region," *American Journal of Respiratory Cell and Molecular Biology*, 25(5):542-553 (November, 2001).
	9.	Clavereau *et al.*, "Transfection of various carcinoma cell lines using Effectene™ reagent," in *Qiagen News - Customer Application Guide*, Issue No. 1 (2000).
	10.	Davies *et al.*, "Identification of MUC5B, MUC5AC and small amounts of MUC2 mucins in cystic fibrosis airway secretions," *Biochemical Journal*, 344 (Pt 2) (4697):321-330 (1999).
	11.	Desseyn *et al.*, "Genomic organization of the 3' region of the human mucin gene MUC5B," *J. Biol. Chem.*, 272(27):16873-16883 (July 4, 1997).
	12.	Desseyn *et al.*, "Genomic organization of the human mucin gene MUC5B," *J. Biol. Chem.*, 273(46):30157-30164 (November 13, 1998).
	13.	Desseyn *et al.*, "Human mucin gene MUC5B, the 10.7-kb large central exon encodes various alternate subdomains resulting in a super-repeat," *The Journal of Biological Chemistry*, 272(6):3168-3178 (February 7, 1997).
	14.	GenBank Accession No. AF107890, Chen *et al.*, Homo sapiens mucin 5B (MUC5B) gene, partial cds. Released November 22, 2000.
	15.	GenBank Accession No. AJ012453, Vanseuningen, Homo sapiens MUC5B gene proximal 5' flanking region. Released May 3, 2001.
	16.	GenBank Accession No. U67167, Gum *et al.*, Homo sapiens intestinal mucin (MUC2) gene, promoter region and partial cds. Released July 9, 1997.
	17.	GenBank Accession No. X74955, Laine, H. sapiens MUC5B mRNA (clone JER57) for mucin (partial). Released June 12, 1996.
	18.	GenBank Accession No. Z48314, Lesuffleur, H. sapiens mRNA for apomucin. Released August 2, 1995.

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EXAMINER INITIAL		OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
	19.	GenBank Accession No. Z72496, Laine, H. sapiens MUC5B gene (partial). Released August 20, 1997.
	20.	GenBank Accession Number AJ004862, Laine, Homo sapiens partial MUC5B gene, exon 1-29. Released March 10, 2000.
	21.	GenBank Accession Number AJ011582, Laine, Homo sapiens MUC5B gene, 5'UTR. Released July 14, 2000.
	22.	Hovenberg *et al.*, "Different mucins are produced by the surface epithelium and the submucosa in human trachea: identification of MUC5AC as a major mucin from the goblet cells," *Biochem. J.*, 318(Pt. 1, Vol.17):319-324 (1996).
	23.	Hovenberg *et al.*, "MUC5AC, but not MUC2, is a prominent mucin in respiratory secretions," *Glycoconjugate Jour.*, 13(5):839-847 (1996).
	24.	Jany, *et al.*, "Modification of Mucin Gene Expression in Airway Disease," *Am. Rev. Respir. Dis.*, 144(3 Pt 2):S38-41 (1991).
	25.	Kaliner *et al.*, "Pulmonary Perspective. Human Respiratory Mucus," *American Review of Respiratory Disease*, 134(3):612-621 (1986).
	26.	Ke *et al.*, "Human bronchial epithelial cells with integrated SV40 virus T antigen genes retain the ability to undergo squamous differentiation," *Differentiation*, 38(1):60-66 (1988).
	27.	Keates *et al.*, "Molecular cloning of a major human gall bladder mucin: complete C-terminal sequence and genomic organization of MUC5B," *Biochem. J.*, 324(Pt 1):295-303 (1997).
	28.	Koo *et al.*, "Restoration of the Mucous Phenotype by Retinoic Acid in Retinoid-Deficient Human Bronchial Cell Cultures: Changes in Mucin Gene Expression," *American Journal of Respiratory Cell and Molecular Biology*, 20(1):43-52 (1999).
	29.	Lesuffleur *et al.*, "Differential expression of the human mucin genes *MUC1* to *MUC5* in relation to growth and differentiation of different mucus-secreting HT-29 cell subpopulations," *J. of Cell Science*, 106:771-783 (1993).
	30.	Lesuffleur *et al.*, "Mucins in normal and neoplastic human gastrointestinal tissues," *Crit. Rev. Oncol. Hematol.*, 17(3):153-180 (1994).
	31.	Louahed *et al.*, "Interleukin-9 upregulates mucus expression in the airways," *Am. J. Respir. Cell Mol. Biol.*, 22:649-656 (2000).
	32.	Meerzaman *et al.*, "Cloning and Analysis of cDNA Encoding a Major Airway Glycoprotein, Human Tracheobronchial Mucin (MUC5)," *Jour. Biol. Chem.*, 269(17):12932-12939 (1994).
	33.	Offner *et al.*, "The amino-terminal sequence of MUC5B contains conserved multifunctional D domains: Implications for tissue-specific mucin functions," *Biochem. Biophys. Res. Commun.*, 251(1):350-355 (1998).
	34.	Perrais *et al.*, "Aberrant expression of human mucin gene MUC5B in gastric carcinoma and cancer cells; identification and regulation of a distal promoter," *J. Biol. Chem.*, 276(18):15386-15396 (May 4, 2001).
	35.	Pigny *et al.*, "Human Mucin Genes Assigned to 11p15.5: Identification and Organization of a Cluster of Genes," *Genomics*, 38(3):340-352 (1996).
	36.	Pigny *et al.*, "Identification of a 42-kDa nuclear factor (NF1-MUC5B) from HT-29 MTX cells that binds to the 3' region of human mucin gene *MUC5B*," *Biochem. Biophys. Res. Commun.*, 220(1):186-191 (1996).
	37.	Poster Presentation: Chen *et al.*, "Differential mucin gene expression and regulation in cultures of conducting airway epithelial cells," American Thoracic Society / American Lung Association International Conference, San Diego, CA (April 23-28, 1999). Abstract A22 [Poster: 604]
	38.	Reid *et al.*, "Developmental Expression of Mucin Genes in the Human Respiratory Tract," *Am. J. Respir. Cell Mol. Biol.*, 17:592-598 (1997).
	39.	Robinson *et al.*, "Culture of Conducting Airway Epithelial Cells," *J. Tiss. Cult. Meth.*, 13:95-102 (1991).
	40.	Rogers *et al.*, "Airway goblet cells: responsive and adaptable front-line defenders," *Eur. Respir. J.*, 7(9):1690-706 (1994).
	41.	Sheehan *et al.*, "Physical characterization of a low-charge glycoform of the MUC5B mucin comprising the gel-phase of an asthmatic respiratory mucous plug," *Biochemical Journal*, 338(Pt 2)(7):507-513 (1999).
	42.	Thornton *et al.*, "Identification of two glycoforms of the MUC5B mucin in human respiratory mucus," *J. Biol. Chem.*, 272(14):9561-9566 (1997).

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	43.	Van Seuningen *et al.*, "Sequence of the 5'-flanking region and promoter activity of the human mucin gene MUC5B in different phenotypes of colon cancer cells," *Biochem. J.*, 348(Pt. 3):675-686 (June 15, 2000).
	44.	Wickström *et al.*, "MUC5B is a major gel-forming, oligomeric mucin from human salivary gland, respiratory tract and endocervix; identification of glycoforms and C-terminal cleavage," *Biochem. Jour.*, 334(Pt. 3)(14):685-693 (1998).
	45.	Wu *et al.*, "Growth and differentiation of conducting airway epithelial cells in culture," *European Respiratory Journal*, 10(10):2398-2403 (1997).
	46.	Yanagihara et al., "Lipopolysaccharide Induces Mucus Cell Metaplasia in Mouse Lung," *Am. J. Respir. Cell. Mol. Biol.*, 24(1):66-73 (2001).
	47.	Yankaskas *et al.*, "Papilloma virus immortalized tracheal epithelial cells retain a well-differentiated phenotype," *Am. J. Physiol.*, 264:C1219-C1230 (1993).

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